



KSS0 – FIBER OPTIC CONVERTER FOR THE NETWORK SYSTEM

FEATURES

- Compatible with KKO and KSS cards
- Redundant transmission path
- Adjustable audio signal delay between units
- Full synchronization of messages across subsystems
- Digital communication
- Maximum connection length between units: up to 20 km
- Supports single-mode and multi-mode fiber
- Configurable as point-to-point, multi-point, or ring topology
- Ultra-low quiescent power mode



Certificate of constancy of performance 1438-CPR-1077
Certificate of admittance 5641/2025



EN54 16

OVERVIEW

KSS024 module are used to establish fiber optic connections within the IVO system, enabling robust and long-distance communication.

These converters support the creation of RS485 network links using fiber optic cables in conjunction with:

- The KSS card, for interconnecting up to 32 KG-ETH units
- The KKO card, for connecting non-emergency microphone consoles to the KKO card

The KSS024 module is compatible with both single-mode and multimode fiber optic cables, and it enables RS485 communication between networked rack cabinets arranged in a ring configuration for enhanced redundancy, and reliability.

TECHNICAL SPECIFICATION

GENERAL

Power supply	24 V DC $\pm$ 20 % 48 V DC $\pm$ 15 %
Idle consumption	< 2,4 W
Standards	EN54, CE
Mechanical	103 x 77 x 53 mm
Operating temperature	-5 : +50 °C
Relative humidity	25 % - 90 %
Indicators	Power, signal missing optic 1, 2, communication on ports 1, 2, 3, 4
Connectors	Power, 4x optic S.C. (9/125 μ m or 62,5/125 μ m), 4x RJ45 (digital BUS)

AUDIO SPECIFICATION

Frequency response	10 Hz - 30 kHz (- 3 dB)
Distortion (THD + N) (1 kHz)	< 0,1 %
Signal-to-noise ratio	> 86 dB

OTHERS

Communication delay	< 10 ms
Digital audio format	PCM 16-bit / 48 kHz
Switches	DIP switches (ring configuration)

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